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Department of Energy

Pacific Area Support Office

P.O. Box 29939

Honolulu, HI 96820

27 APR 1985

Addressees

OPERATIONS PLAN, MISSION NO. 5, FY 1985 - LLNL, BIKINI ATOLL

The enclosed Operations Plan covers Mission No. 5, FY 1985 and has been coordinated with LLNL (W. Robison), USO (Captain Keith Coberly), DOE Coordinator (T. Fowler), and H&N/PO (P. Haggerty and J. Matthewman).

For additional information, please contact Harry Brown or Bill Jackson at (808) 422-9211.

A handwritten signature in cursive script, which appears to read "W. J. Stanley", is positioned above the printed name and title.

W. J. Stanley
Director

OP-330:WDJ

Encl:
Operations Plan

DOE - John Rudolph's files, box

Addressees

Hon. Janet McCoy, HICOM, TTPI
Hon. Oscar deBrum, Chief Secretary, REPMAR, Majuro
Hon. Tony deBrum, Minister, Foreign Affairs, Majuro
Hon. Henchy Balos, Senator, The Nitijela, Majuro
Dr. Henry Kohn, Chairman, BARC
Jonathan Weisgall, Esq.
John Rudolph, DP-224, DOE/HQ
Roger Ray, DPO, NV
Don T. Schueler, AMA, NV
William J. Stanley, Dir., PASO
Michael J. Senko, U. S. Status LNO, Majuro
Dr. W. Robison, LLNL
C. E. Otterman, USO
Col. William Spin, Cmdr., KMR
D. K. McLaughlin, Res. Mgr., Global Associates, Kwaj.
Capt. Keith Coberly, USO, Kwaj.
Jiba Kabua, Chief Secretary's Rep., REPMAR, Kwaj.
Tom Fowler, DOE Coordinator, Kwaj.
Reynold deBrum, DOE Coordinator, Majuro
H&N/PO (Brush, Haggerty, Matthewman, Ulrich, Grewe, Koga, Foard)
H. U. Brown, DOE, PASO
W. D. Jackson, DOE, PASO

OPERATIONS PLAN

MISSION NO. 5, FY 1985

BIKINI ATOLL

I. Background and Purpose

Lawrence Livermore National Laboratory (LLNL) on behalf of DOE, conducts terrestrial investigations to measure and analyze radionuclides in the environment at Bikini and other atolls in the Marshall Islands. From these investigations, dose assessments to man are formulated and the results are made available to Bikinians, their government and other interested entities. Another major aspect of the program is to conduct experiments aimed at reducing the inventory of radionuclides in the soil or to otherwise limit their entrance into the food chain.

The Bikini Atoll Rehabilitation Committee (BARC), established in 1982 through the Department of Interior, working with the Bikini people, is authorized and funded by the U. S. Congress to study and report on the feasibility and cost of rehabilitating Bikini Atoll. A significant task of BARC is to investigate how radioactive contamination of Bikini can be reduced while at the same time respecting the atoll's biological and environmental integrity.

The BARC mandate and the scientific work done at Bikini for DOE by LLNL are for the most part similar and complimentary. Both organizations have been working together to dovetail goals and work schedules so as to satisfy the BARC mandate in an economical and timely fashion. To accomplish this, DOE and the DOI are finalizing a formal working arrangement satisfactory to BARC. This is to be the second integrated mission to achieve these goals.

II. Work to Be Performed

- A. Continue work on the experiments initiated during the February 1985 trip (PASO Mission #3).
- B. Collect samples from all experiments.
- C. Replant crops as necessary.
- D. Set up the beta measurement project by putting out TLD's on Bikini and Eneu Islands.
- E. Continue soil sampling of Eneu Island.
- F. Collect soils for greenhouse studies.
- G. Collect samples from LLNL's permanent trees.
- H. Attempt to locate areas on Bikini Island sampled by the University of Washington.

- I. Continue the "high K" fertilizer experiments started prior to 2/85.

III. Personnel and Itineraries

A. LLNL

Dr. William Robison - Party Chief
Marshall Stuart
James Johnson
William Phillips
John Rehder
Cleo Fry
Michael Trent
James Cate
Kathy Shingleton

B. BARC

Dr. Earl Stone

C. University of Washington

Lynn Melby

D. Holmes & Narver

Willie Robb - H. E. Operator
Ed Fox - Electrician
Jeff Helgoe - Mechanic
H&N (Unnamed) - Mechanic
Aiko West - Cook

E. Marshallese Field Workers

Anthony Ned
Randy Anjolak
Leander Ishoda
Aitti Almen
Kyoto Joenaiea

F. Itineraries (West of Honolulu)

	Ar <u>Kwa</u>	Lv <u>Kwa</u>	Ar <u>Bik</u>	Lv <u>Bik</u>	Ar <u>Kwa</u>	Lv <u>Kwa</u>
W. Robison	4/29	5/2	5/2	5/16	5/16	5/19
M. Stuart	4/29	5/2	5/2	5/16	5/16	5/16
J. Johnson	4/29	5/2	5/2	5/16	5/16	5/16
W. Phillips	4/29	5/2	5/2	5/16	5/16	5/19
J. Rehder	4/29	5/2	5/2	5/16	5/16	5/16
C. Fry	4/29	5/2	5/2	5/16	5/16	5/16
M. Trent	4/29	5/2	5/2	5/16	5/16	5/16
J. Cate	4/29	5/2	5/2	5/16	5/16	5/16

<u>Name</u>	<u>Ar</u> <u>Kwa</u>	<u>Lv</u> <u>Kwa</u>	<u>Ar</u> <u>Bik</u>	<u>Lv</u> <u>Bik</u>	<u>Ar</u> <u>Kwa</u>	<u>Lv</u> <u>Kwa</u>
K. Shingleton	4/29	5/2	5/2	5/16	5/16	5/16
E. Stone	4/29	5/2	5/2	5/16	5/16	5/16
L. Melby	4/29	5/2	5/2	5/16	5/16	5/16
W. Robb	4/30	5/2	5/2	5/16	5/16	5/16
E. Fox	4/29	5/2	5/2	5/16	5/16	5/16
J. Helgoe	--	--	--	--	--	--
H&N Mechanic (Unnamed)	4/29	5/2	5/2	5/16	5/16	5/16
A. West	4/29	5/2	5/2	5/16	5/16	5/23
A. Ned	5/2	5/2	5/2	5/16	5/16	5/16
R. Anjolak	5/2	5/2	5/2	5/16	5/16	5/16
L. Ishoda	5/2	5/2	5/2	5/16	5/16	5/16
A. Almen	5/2	5/2	5/2	5/16	5/16	5/16
K. Joenaiea	5/2	5/2	5/2	5/16	5/16	5/16

IV. Transportation Schedules

A. AMI 748 aircraft

1. 5/2 - Kwajalein to Bikini charter with party of 20 (9 - LLNL; 1 - BARC; 1 - UW, 4 - H&N; 5 - local field workers).
2. 5/16 - Bikini to Kwajalein charter with party of 20 (9 - LLNL; 1 - BARC; 1 - UW; 4 - H&N; 5 - local field workers).

B. Egabrag II Schedule

5/2 - Depart for Bikini
 5/3 - Arrive Bikini
 5/16 - Depart Bikini
 5/17 - Arrive Kwajalein

V. Logistical Support Requirements

A. H&N

1. Make all appropriate travel, hotel, vehicle (if needed) arrangements for LLNL/BARC and H&N mission party. Includes travel orders, tickets, clearances for Kwajalein.
2. Coordinate the shipment/retrograde of supplies and samples.
3. Ensure equipment, parts, personnel and general support are provided to LLNL and BARC party per W. Robison letters of 3/18/85 (to P. Haggerty), of 3/27/85 (to H. Brown), and 4/4/85 (to W. Stanley), and telecon of 3/27/85 as reported in H&N ROI of same date.
4. Continue provision of agricultural maintenance to Bikini plots.
5. Wire the amounts of \$2,000 to DOE Coordinator Kwajalein in two installments: \$700.00 by 4/29/85, and \$1,300 by 5/15/85 for wage payments by LLNL.

B. DOE Coordinator, Kwajalein

1. Arrange for billeting, passes, vehicles, bicycles, and necessary ground support, clearances, air travel reconfirmations, etc., for mission party.
2. Coordinate the hire and payment of Marshallese field workers for LLNL mission. Provide support and KMR clearances as appropriate for locally hired personnel. (Note: If Anthony Ned unavailable, substitute with Stanley Johnny).
3. Ensure all mission supplies and equipment are secured and loaded aboard vessel, in particular, fulfilling requirements of W. Robison letter of 3/27/85, as copied to you.
4. Ensure that the ramp for the barges is fabricated by KMR in time for the mission and loaded aboard ship.
5. Coordinate the shipment, retrograde and preparation of documentation for LLNL mission gear, supplies, equipment, and samples, etc.
6. Coordinate closely with H&N and LLNL in advance to ensure all cargo received, all mission supplies and equipment loaded aboard ship, etc.
7. Receive and load aboard ship, the 20 casuarina seedlings from Majuro.
8. Coordinate air and ship support to the mission.

C. DOE Coordinator, Majuro

1. Arrange with AMI for the charter of 748 aircraft to carry 20 persons from Kwajalein to Bikini on May 3, and from Bikini to Kwajalein on May 17 (Majuro dates).
2. Purchase, collect, and ship 20 casuarina seedlings to DOE Coordinator, Kwajalein by 4/29/85 (Majuro date).

D. U. S. Oceanography

1. Ensure two Whalers are operable and loaded aboard ship for mission support.
2. Ensure all mission cargo, supplies, equipment are loaded and stowed aboard the vessel, including the 3 barges, 4 freezers, 3,000 gallons of diesel fuel, 10 barrels of mogas, etc.
3. Provide other mission support in the field as requested, including fuel transfer (which must be logged and recorded).

VI. Funding

Program charges for this mission are to be recorded against SANL 417-001, but shared between LLNL and BARC in accordance with an agreed upon formula.

VII. Reports

The Party Chief is to provide a comprehensive report on the mission no later than 30 days after completion of the operation, to the Director, PASO, with an information copy to the Deputy for Pacific Operations, Office of the Manager, NV. This report should be concise and offer any comments or recommendations which will improve future operations.